

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1056464

Luminaire Tested: S125R3DR-S610D950-X4F0-XX-UDD-FLL-S

Issue Date: 7/25/2025

**Test Information**

Test Method: LM-79-2019  
Report Number: P1056464  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2503-402-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/25/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: NEO-RAY  
Catalog Number: S125R3DR-S610D950-X4F0-XX-UDD-FLL-S  
Description: DEFINE 5, SILVER 3-INCH REGRESSED DIRECT RECESSED HOUSING WITH FROSTED LENS  
CORE LIGHT ENGINE  
Light Source: 5000K CCT, 90 CRI LEDS  
Ballast/Driver: -

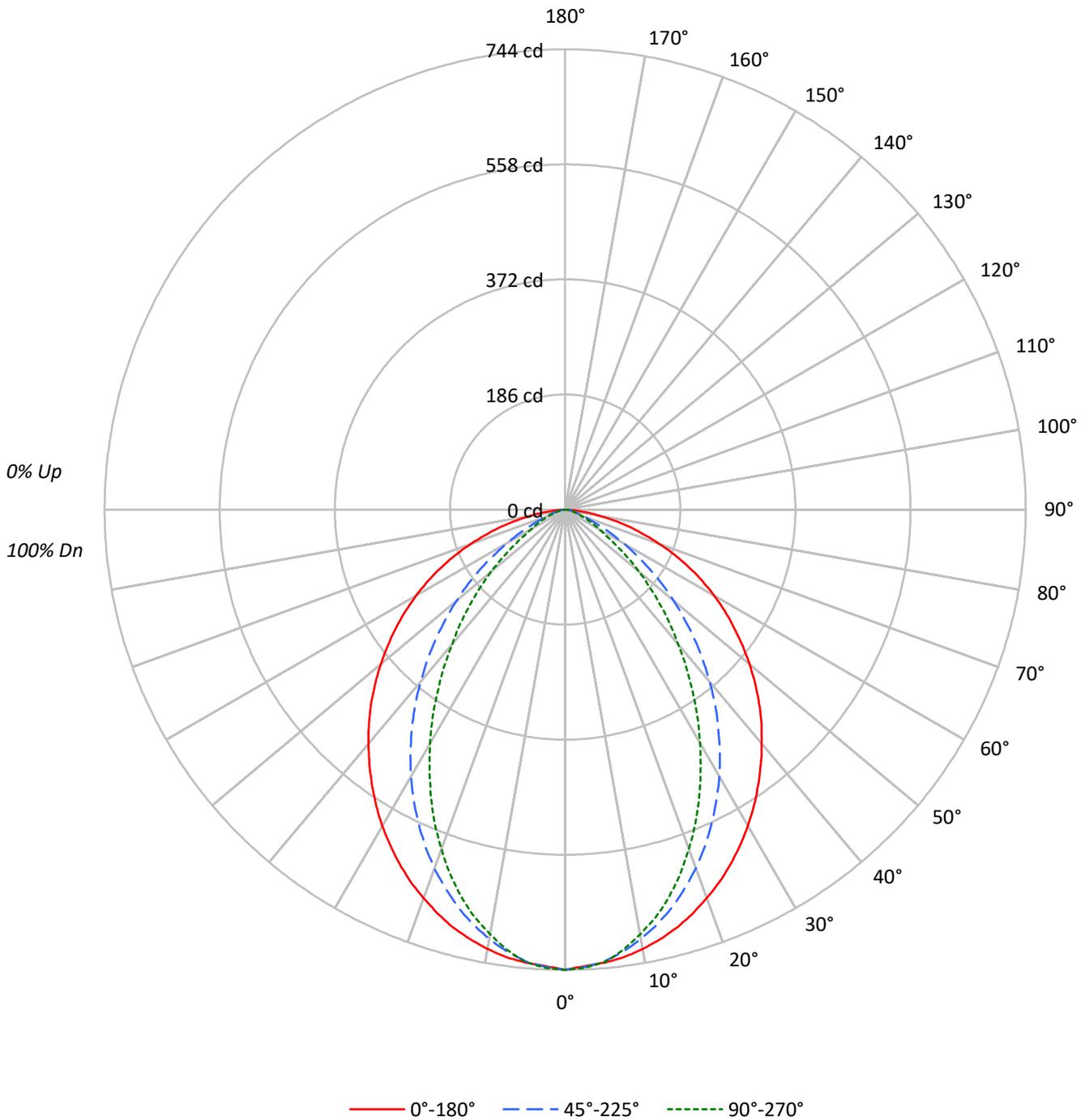
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1344.8 lumens  
Efficiency: N/A  
Efficacy: 70.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 0.95 / 1.11  
Luminous Opening: Rectangular (W 0.39' x L: 3.9' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 19.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				100
1	111	107	103	100	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88
2	102	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77
3	95	86	79	73	92	84	78	73	81	76	71	79	74	70	76	72	69	67				67
4	88	77	70	64	86	76	69	63	74	67	62	71	66	62	69	65	61	59				59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52				52
6	76	64	56	50	74	63	55	50	61	54	49	60	54	49	58	53	49	47				47
7	71	58	50	45	69	58	50	45	56	49	44	55	49	44	54	48	44	42				42
8	66	54	46	41	65	53	46	41	52	45	40	51	45	40	50	44	40	38				38
9	62	50	42	37	61	49	42	37	48	41	37	47	41	37	46	41	36	35				35
10	58	46	39	34	57	46	39	34	45	38	34	44	38	34	43	38	34	32				32

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5260	5260	5260
5°	5217	5202	5212
10°	5178	5059	5005
15°	5118	4876	4745
20°	5028	4644	4395
25°	4933	4369	3998
30°	4819	4066	3560
35°	4691	3722	3097
40°	4559	3344	2619
45°	4429	2948	2169
50°	4274	2508	1705
55°	4109	2037	1240
60°	3925	1520	886
65°	3688	1002	691
70°	3332	699	484
75°	2898	451	377
80°	2272	338	309
85°	1176	276	227

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 4429 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.3	5.2
10°-20°	188.4	14.0
20°-30°	260.5	19.4
30°-40°	276.0	20.5
40°-50°	240.9	17.9
50°-60°	171.3	12.7
60°-70°	95.3	7.1
70°-80°	36.6	2.7
80°-90°	6.4	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	518.2	38.5
0°-40°	794.3	59.1
0°-60°	1206.5	89.7
0°-90°	1344.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1344.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	735	741	733	731	734	70
15°	699	693	666	652	648	197
25°	632	611	560	526	513	291
35°	544	506	431	379	359	340
45°	443	390	295	236	217	341
55°	333	267	165	114	101	298
65°	220	145	60	44	41	218
75°	106	41	16	14	14	112
85°	14	4	3	3	3	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	744.0	744.0	744.0	744.0	744.0
2.5°	738.5	746.1	739.9	740.6	741.3
5°	735.1	740.6	733.0	730.9	734.4
7.5°	729.6	733.7	720.6	715.8	717.9
10°	721.3	722.7	704.8	697.9	697.2
12.5°	711.0	708.9	686.9	675.8	675.1
15°	699.3	693.1	666.2	651.7	648.3
17.5°	684.8	675.1	642.1	623.5	618.0
20°	668.3	655.2	617.3	593.2	584.2
22.5°	651.7	633.8	589.7	559.4	549.8
25°	632.4	611.1	560.1	525.6	512.6
27.5°	611.8	586.3	529.8	489.8	474.0
30°	590.4	560.8	498.1	453.3	436.1
32.5°	567.7	533.9	465.0	416.1	398.2
35°	543.6	506.4	431.3	378.9	358.9
37.5°	519.4	478.1	398.2	342.4	321.7
40°	494.0	449.2	362.4	305.2	283.8
42.5°	469.2	419.6	328.6	270.1	250.8
45°	443.0	389.9	294.9	235.6	217.0
47.5°	416.1	358.9	261.1	203.2	184.6
50°	388.6	328.6	228.0	171.5	155.0
52.5°	361.0	298.3	197.0	141.2	126.8
55°	333.4	267.3	165.3	114.4	100.6
57.5°	305.9	237.0	135.7	89.6	77.2
60°	277.6	206.0	107.5	66.1	62.7
62.5°	249.4	175.7	83.4	54.4	51.7
65°	220.5	144.7	59.9	44.1	41.3
67.5°	191.5	116.4	43.4	33.8	31.7
70°	161.2	88.9	33.8	25.5	23.4
72.5°	132.3	64.1	24.1	18.6	17.9
75°	106.1	41.3	16.5	13.8	13.8
77.5°	79.9	24.8	11.7	10.3	10.3
80°	55.8	14.5	8.3	7.6	7.6
82.5°	33.8	7.6	5.5	4.8	4.8
85°	14.5	4.1	3.4	2.8	2.8
87.5°	2.8	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)